



State Revolving Fund Loan Programs

Drinking Water, Wastewater, Nonpoint Source

PRELIMINARY DECISION OF CATEGORICAL EXCLUSION

TO ALL INTERESTED CITIZENS, ORGANIZATIONS AND GOVERNMENT AGENCIES:

CITY OF MISHAWAKA
Wastewater Treatment Plant Aeration Blower and
Judy Creek Force Main Replacement/Rehabilitation
SRF # WW 09 36 71 03

Date: August 3, 2009

Target Project Approval Date: August 4, 2009

Pursuant to IC 4-4-11, the State Revolving Fund (SRF) Loan Program has determined that the project described here and in the Mishawaka Preliminary Engineering Report submitted to the SRF on March 12, 2009 will have no substantial negative environmental impact. Therefore, the SRF is issuing a preliminary decision of Categorical Exclusion from the requirements of substantive environmental review.

How were environmental issues considered?

The National Environmental Policy Act (NEPA) requires agencies disbursing Federal funds to include environmental factors in the decision making process. A summary of the project is attached for review. The SRF's preliminary review has found that the proposed project does not require the preparation of either an Environmental Assessment or an Environmental Impact Statement.

Why is additional environmental review not required?

Our environmental review has concluded that the proposed action will not produce significant environmental impacts.

How do I submit comments?

Comments can be submitted to:

Mr. Max Henschen, Senior Environmental Manager
SRF Programs
317-232-8623; mhensche at ifa.in.gov

CATEGORICAL EXCLUSION

I. PROJECT IDENTIFICATION

Project Name and Address: **Wastewater Treatment Plant Aeration Blower &
Juday Creek Force Main Replacement/Rehabilitation**
City of Mishawaka
Board of Public Works
600 East Third Street
Mishawaka, IN 46546-0363

SRF Project Number: WW 09 36 71 03

Authorized Representative: Mr. Gary E. West, President
Board of Public Works and Safety

II. PROJECT LOCATION

Mishawaka is located in the northeast corner of St. Joseph County. The current and future service areas are one and the same. There are two project areas which include the Wastewater Treatment Plant (WWTP) and the Juday Creek force main. The WWTP is in Penn Township, USGS South Bend East 7.5 minute quadrangle, T37N, R3E, NW ¼ Section 16. See Figure 1. The Juday Creek Force Main is in two civil townships: North of Edison Road, the project will occur in Clay Township, in the South Bend East quad, T38N, R3E, SW ¼ of Section 33; south of Edison Road, the project will occur in Penn Township, South Bend East quad, T37N, R3E, W ½ of Section 4 and NW ¼ of Section 9. See Figure 2.

III. PROJECT NEED AND PURPOSE

The WWTP was constructed in 1952; the city implemented major upgrades and renovation 1993 and 2008. The WWTP has four aeration blowers. One blower is only two years old; another blower is 17 years old; and the other two are 25 years old. The older blowers are not variable speed, so the blower output cannot match air demand and are more maintenance intensive. Therefore, a more efficient blower would reduce maintenance, as well as energy costs.

The Juday Creek force main services the sanitary sewer system on the city's north side, conveying wastewater from this area directly to the wastewater treatment plant. The 18-inch ductile iron (DI) force main was constructed in 1993 and 1994. Due to the long detention time of sewage in the force main and the high biological oxygen demand of waste material from restaurants in this area, hydrogen sulfide has caused corrosion. Problems with the force main were first detected by visual inspections of sewage seepage above ground at the southern portion of the force main near Jefferson Boulevard and Benton Street. Since the corrosion occurs throughout the length of the force main, the city will need to replace or rehabilitate the force main to prevent future pipe failures.

The "No Action" alternative was rejected for the WWTP aeration blower, since the older blowers would continue to deteriorate, operate inefficiently and become more maintenance intensive.

The "No Action" alternative was also rejected for the Juday Creek force main, since the force main would continue to deteriorate and eventually fail.

Installation of a more efficient aeration blower at the WWTP was the only other alternative evaluated; the older blowers will remain for emergency use only. Based on cost effectiveness, practicality, technical feasibility, reliability, ease of implementation, and environmental soundness this was the selected alternative.

Replacement and rehabilitation of the 18-inch DI force main in three phases were the other two alternatives evaluated for the Juday Creek force main.

In Phase I, the southern 1,200 feet of the force main will be replaced with new C905 polyvinyl chloride (PVC) pipe. This will allow continued use of the lift station and force main alignment, as well as alleviate concerns for pipe failures. Phases II and III will repair the upper portion of the force main using a trenchless rehabilitation method. Three types of trenchless rehabilitation were evaluated: cured in place pipe (CIPP), slip lining and pipe bursting. The selected trenchless technology method will be CIPP. Phase II will rehabilitate 5,400 feet of force main with CIPP, and Phase III will use the same technology to rehabilitate 7,800 feet of force main. See Figure 1.

IV. ESTIMATED PROJECT COST AND FUNDING

Project cost is estimated to be \$5,613,800 (\$256,700 for WWTP aeration turbo blower and \$5,357,100 for the Juday Creek force main work). The city will fund the project with a loan from the State Revolving Fund (SRF) for a 20-year term at an annual interest rate to be determined at loan closing. Monthly user rates and charges may need to be analyzed to determine if adjustments are required for loan repayment.

V. ENVIRONMENTAL IMPACTS OF THE FEASIBLE ALTERNATIVES

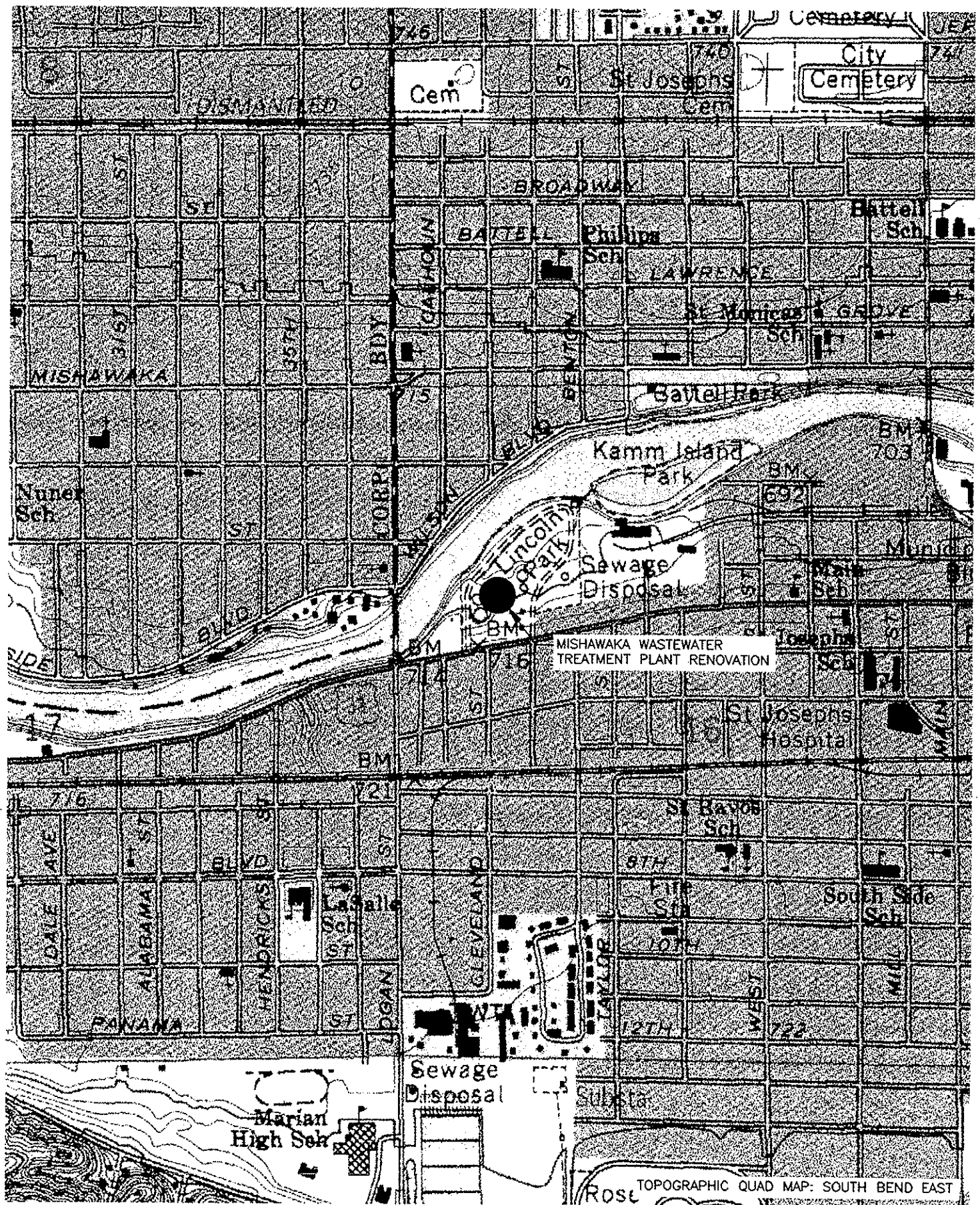
The proposed aeration blower will be installed within an existing WWTP building, while the Juday Creek force main project will take place in the existing sewer trench for Phase I and within the existing force main for Phases II and III.

Neither of the two proposed projects will impact historical or architectural sites as shown on figures 3 and 4 for the WWTP aeration blower and figures 5, 6, and 7 for the Juday Creek force main relative to the Mishawaka Interim Report maps. The SRF's finding pursuant to Section 106 of the Historic Preservation Act is: "no historic properties affected."

Neither of the two projects will affect wetlands, the 100-year floodplain, or the Lake Michigan Coastal Zone. In correspondence dated May 22, 2009, the U.S. Environmental Protection Agency noted that neither of these projects will pose a substantial threat to the St. Joseph Sole Source Aquifer.

VI. PUBLIC PARTICIPATION

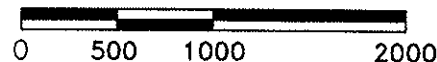
A properly noticed public hearing was held on April 13, 2009 at 4:00 p.m. in the Common Council Chambers, Mishawaka City Hall, 600 East Third Street in Mishawaka. No written comments were received in the 5-day period following the hearing.



CITY OF MISHAWAKA
WASTEWATER STATE REVOLVING FUND

PROJECT 1 - TOPOGRAPHIC MAP
MISHAWAKA WASTEWATER TREATMENT PLANT RENOVATION

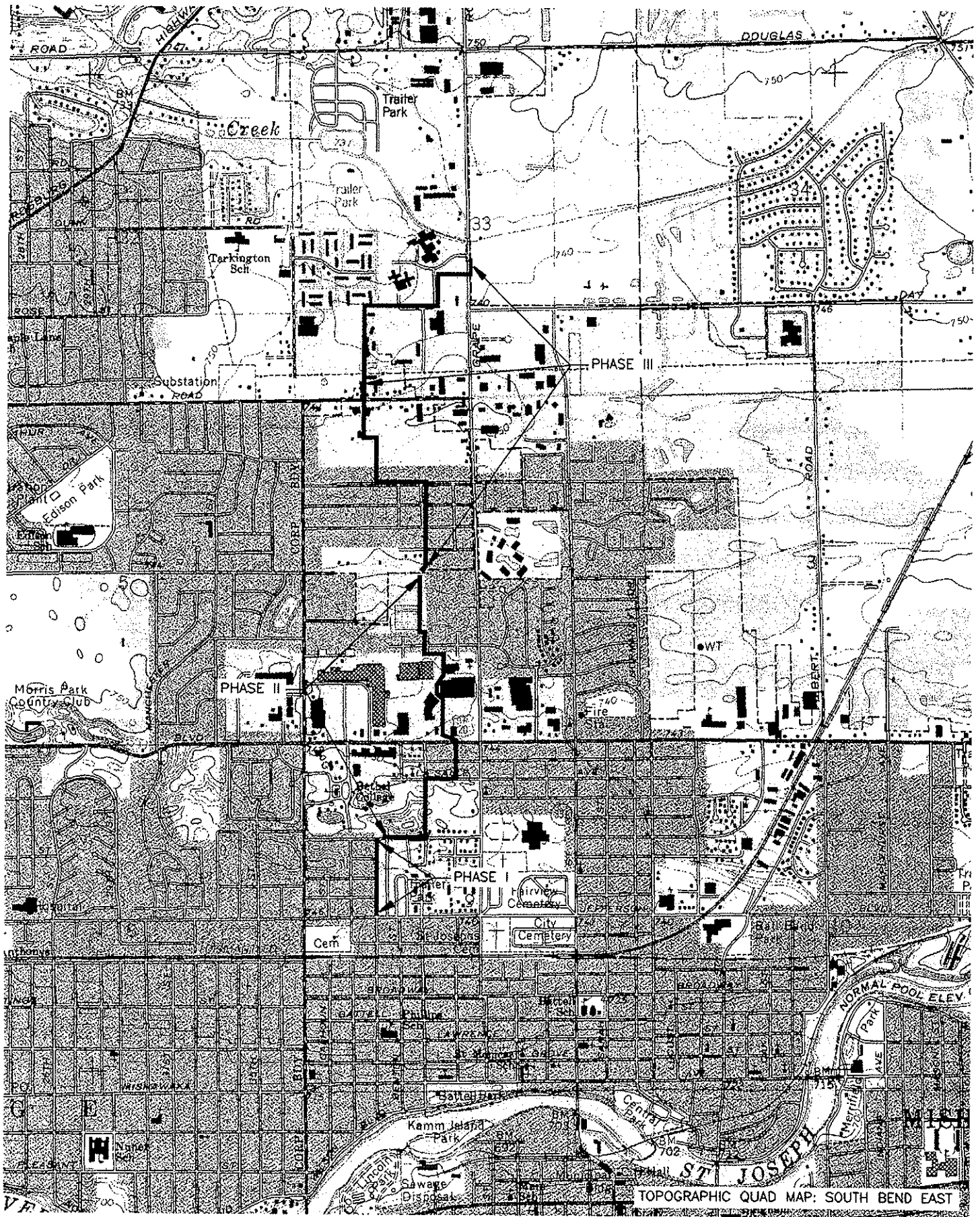
SCALE IN FEET



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FIG. 1



CITY OF MISHAWAKA
WASTEWATER STATE REVOLVING FUND

PROJECT 3 - TOPOGRAPHIC MAP
JUDAY CREEK FORCEMAIN REPLACEMENT PROJECT

SCALE IN FEET

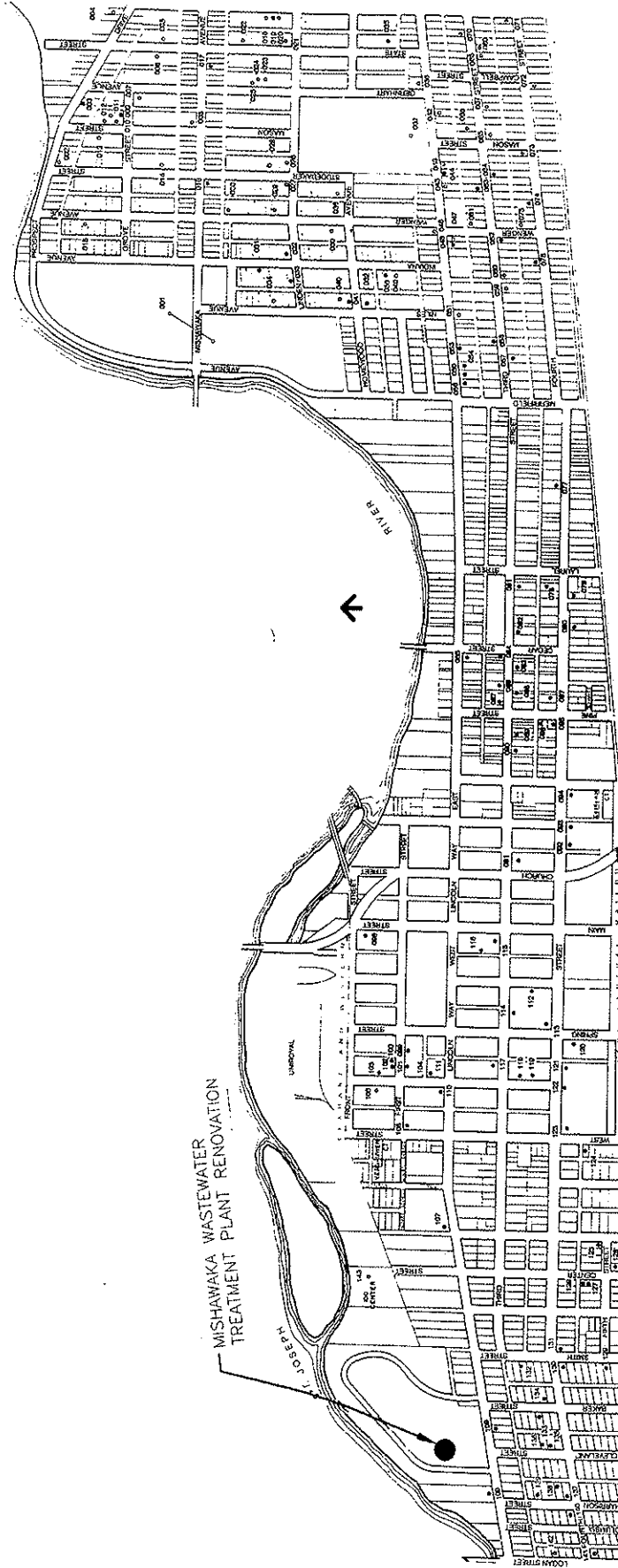


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FIG. 2

CENTRAL SECTOR SCATTERED SITES (53001-53143)



SELECTED HISTORIC PROPERTIES

- INVENTORY NO. 141-597-53108 - C1925 COLONIAL REVIVAL-STYLE HOUSE LOCATED AT 1122 LINCOLNWAY WEST. THIS PROPERTY ABUTS THE WASTEWATER TREATMENT PLANT'S WEST BOUNDARY.
- INVENTORY NO. 141-597-53109 - C1920 AMERICAN FOUR-SQUARE-STYLE HOUSE LOCATED AT 1113-1115 LINCOLNWAY WEST. THIS PROPERTY IS LOCATED ACROSS LINCOLNWAY WEST FROM THE WASTEWATER TREATMENT PLANT.

All scattered sites in the sector are located on this map.

BACKGROUND IMAGE: INDIANA HISTORIC SITES AND STRUCTURES INVENTORY, CITY OF MISHAWAKA SUMMARY REPORT (1995)

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CITY OF MISHAWAKA

WASTEWATER STATE REVOLVING FUND

PROJECT 1 - HISTORIC SITES AND STRUCTURES INVENTORY INTERIM REPORT MAP
MISHAWAKA WASTEWATER TREATMENT PLANT RENOVATION

REVISION: JULY 2, 2009

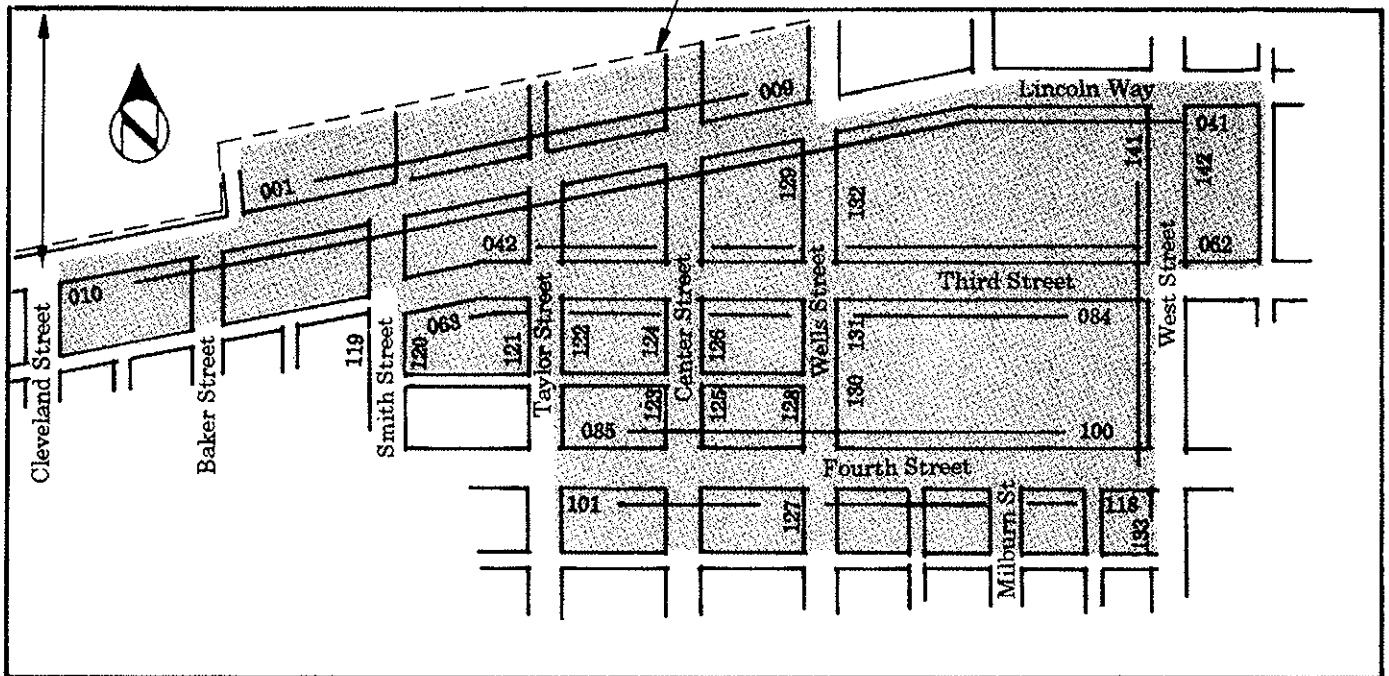


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FIG. 3

LINCOLN WAY WEST HISTORIC DISTRICT (46001-46142)

PROPOSED SITE
± 500 FT.

SOUTHERN WTP
PROPERTY LINE



SELECTED HISTORIC PROPERTIES

- INVENTORY NO. 141-597-46001 - C1910 QUEEN ANNE HOUSE LOCATED AT 922 LINCOLNWAY WEST. THIS PROPERTY IS LOCATED ON THE SOUTH SIDE OF LINCOLNWAY WEST, JUST EAST OF BAKER STREET.
- INVENTORY NO. 141-597-46010 - C1910 QUEEN ANNE HOUSE LOCATED AT 1025 LINCOLNWAY WEST. THE PROPERTY IS LOCATED ON THE SOUTH SIDE OF LINCOLNWAY WEST, BETWEEN CLEVELAND STREET AND BAKER STREET.
- INVENTORY NO. 141-597-46011 - IS A C1915 QUEEN ANNE HOUSE LOCATED AT 1021 LINCOLNWAY WEST. THE PROPERTY IS LOCATED ON THE SOUTH SIDE OF LINCOLNWAY WEST, BETWEEN CLEVELAND STREET AND BAKER STREET.
- INVENTORY NO. 141-597-46012 - IS A C1910 QUEEN ANNE HOUSE LOCATED AT 1013 LINCOLNWAY WEST. THE PROPERTY IS LOCATED ON THE SOUTH SIDE OF LINCOLNWAY WEST, BETWEEN CLEVELAND STREET AND BAKER STREET.
- INVENTORY NO. 141-597-46013 - IS A C1910 QUEEN ANNE HOUSE LOCATED AT 1009 LINCOLNWAY WEST. THE PROPERTY IS LOCATED ON THE SOUTH SIDE OF LINCOLNWAY WEST, BETWEEN CLEVELAND STREET AND BAKER STREET.
- INVENTORY NO. 141-597-46014 - IS A C1910 QUEEN ANNE/NEO-COLONIAL REVIVAL HOUSE LOCATED AT 1003 LINCOLNWAY WEST. THE PROPERTY IS LOCATED ON THE SOUTH SIDE OF LINCOLNWAY WEST, BETWEEN CLEVELAND STREET AND BAKER STREET.

REVISION: JULY 2, 2009

BACKGROUND IMAGE: INDIANA HISTORIC SITES AND STRUCTURES INVENTORY, CITY OF MISHAWAKA SUMMARY REPORT (1995)

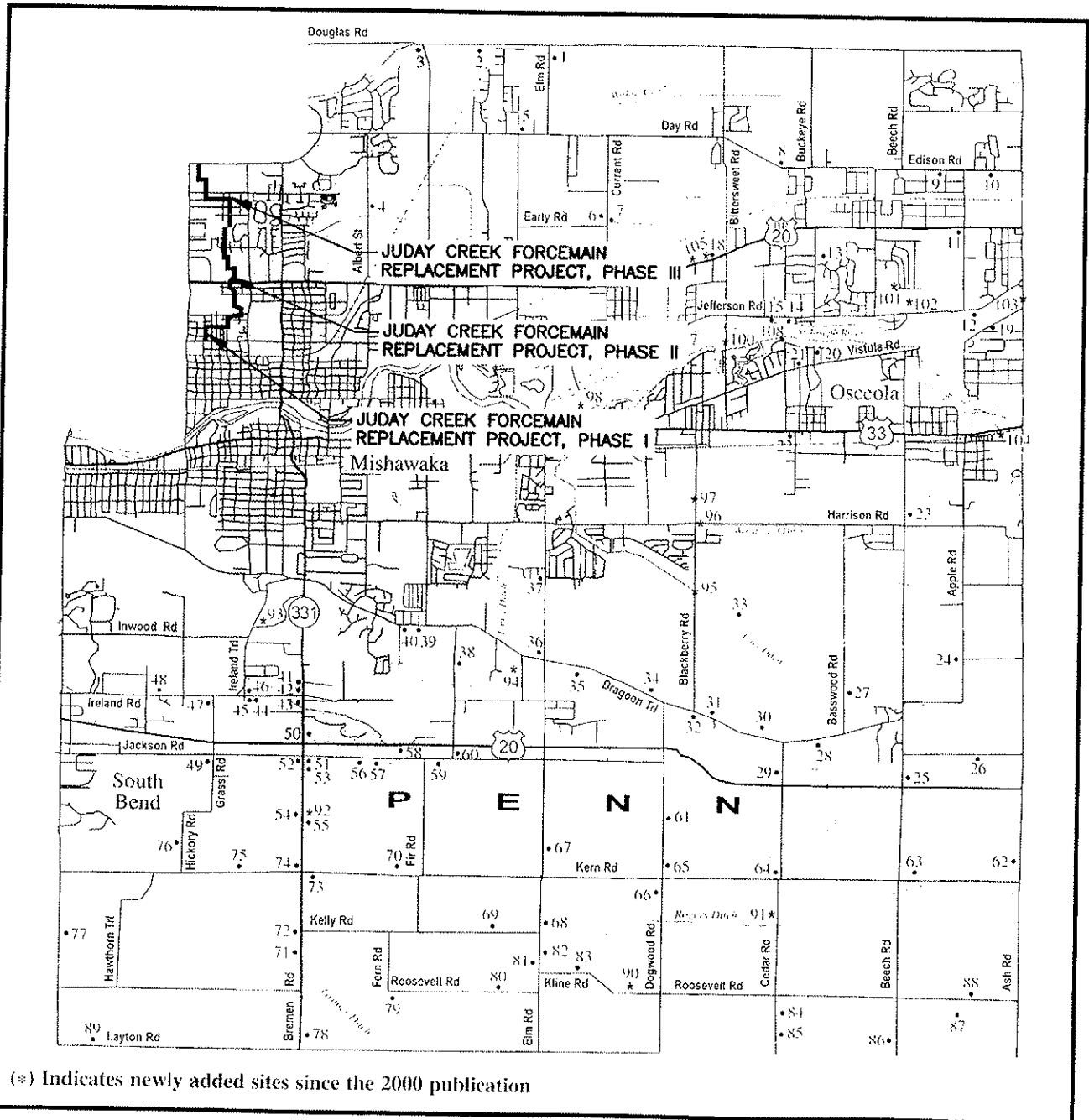
CITY OF MISHAWAKA
WASTEWATER STATE REVOLVING FUND

PROJECT 1 - HISTORIC SITES AND STRUCTURES INVENTORY INTERIM REPORT MAP
MISHAWAKA WASTEWATER TREATMENT PLANT RENOVATION



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FIG. 4

Penn Township (75001-108)



90

BACKGROUND IMAGE: HISTORIC PRESERVATION COMMISSION SITES & STRUCTURES INVENTORY, SOUTH BEND, ST. JOSEPH COUNTY, INDIANA, INTERIM REPORT (2006)

REVISION: JUNE 4, 2009

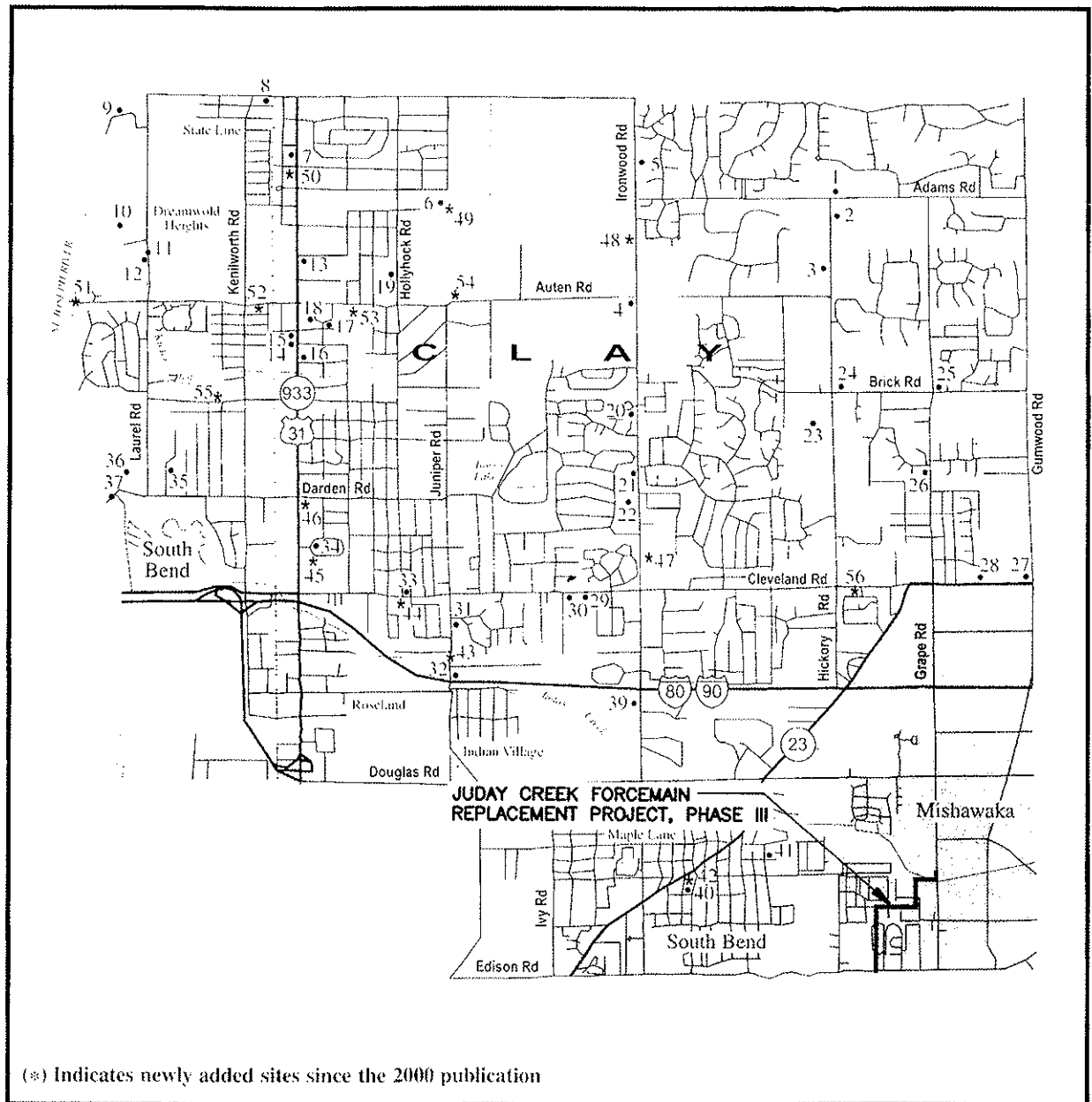
CITY OF MISHAWAKA
WASTEWATER STATE REVOLVING FUND

PROJECT 3 - HISTORIC SITES AND STRUCTURES INVENTORY INTERIM REPORT MAP
JUDAY CREEK FORCEMAIN REPLACEMENT PROJECT



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DRAWING NUMBER
FIG. 5

Clay Township (05001-056)



BACKGROUND IMAGE: HISTORIC PRESERVATION COMMISSION SITES & STRUCTURES INVENTORY, SOUTH BEND, ST. JOSEPH COUNTY, INDIANA, INTERIM REPORT (2006)

REVISION: JUNE 4, 2001

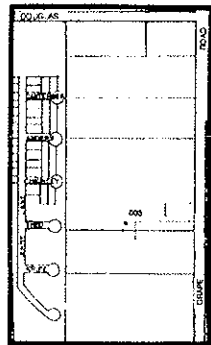
CITY OF MISHAWAKA
WASTEWATER STATE REVOLVING FUND

PROJECT 3 - HISTORIC SITES AND STRUCTURES INVENTORY INTERIM REPORT MAP
JUDAY CREEK FORCEMAIN REPLACEMENT PROJECT

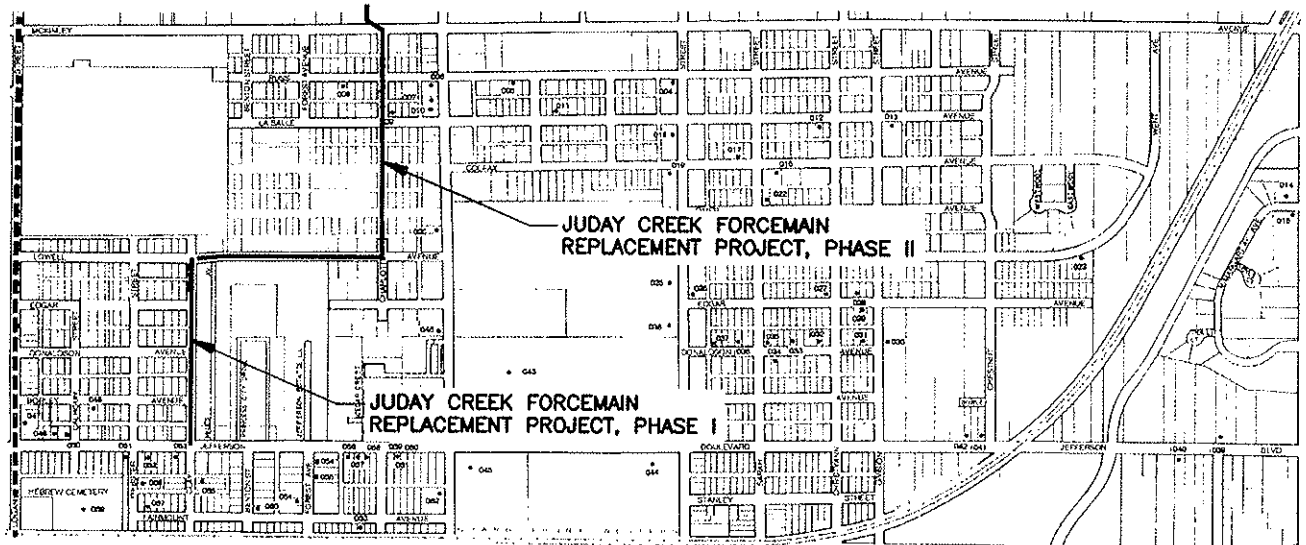
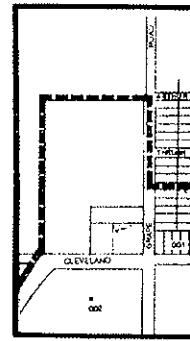


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FIG. 6

NORTH SECTOR SCATTERED SITES (38001-38069)



All scattered sites in the sector are located on this map.



SELECTED HISTORIC PROPERTIES

- INVENTORY NO. 141-597-38009 - C1928 CRAFTSMAN COTTAGE-STYLE HOUSE LOCATED AT 424 LASALLE AVENUE.
 INVENTORY NO. 141-597-38053 - C1925 COTTAGE-STYLE HOUSE LOCATED AT 807 WEST JEFFERSON BOULEVARD.

REVISION: JUNE 4, 200

BACKGROUND IMAGE: INDIANA HISTORIC SITES AND STRUCTURES INVENTORY, CITY OF MISHAWAKA SUMMARY REPORT (1995)

CITY OF MISHAWAKA
 WASTEWATER STATE REVOLVING FUND

PROJECT 3 - HISTORIC SITES AND STRUCTURES INVENTORY INTERIM REPORT MAP
 JUDAY CREEK FORCEMAIN REPLACEMENT PROJECT



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FIG. 7